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PATENT

<u>IN THE UNITED STATES PATENT AND TRADEMARK OFFICE</u>

Group Art Unit: 2812

Examiner: Not Assigned

In re Application of:

LO et al.

Serial No. 09/243,433

Filed: February 3, 1999

illed. Tebruary 3, 1999

For: Manufacturing Method for Making Tungsten-Plug In An Integrated

Circuit Device Without Volcano Phenomena

PETITION UNDER 37 C.F.R. 1.181(a) REQUESTING WITHDRAWAL OF THE HOLDING OF ABANDONMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

The undersigned attorney received a Notice of Abandonment Under 37 CFR 1.53(f) in connection with the above identified application. The Notice indicated that the above identified application is abandoned for failure to timely or properly reply to the Notice to File Missing Parts (Notice) mailed on March 3, 1999. The Notice was mailed on October 10, 2001. This petition has been timely filed.

Applicants have reviewed the file in detail and have concluded that the necessary response to the Notice to File Missing Parts of March 3, 1999 was timely filed on April 23, 1999. As evidence of the filing, Applicants submit herewith a USPTO stamped receipt card dated April 23, 1999, which acknowledges receipt of all of the appropriate papers and fees for a complete response. A copy of the endorsed and deposited check for this application is further evidence that the response was filed in the USPTO.

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OFFICE OF PETITIONS DEPUTY A/C PATENTS

U.S. Serial Number 09/243,433

Copies of the response and appropriate executed declaration are also included herewith to complete the file and place the file in condition for an examination on the merits.

Since the fee has been paid as evidenced by the Patent Office endorsed check, it is submitted that no further fees are necessary. However, please charge to our deposit account No. 02-0200 any necessary fee for Withdrawal of the Notice of Abandonment in connection with this application.

Respectfully submitted,

BACON & THOMAS, PLLC

Richard E. Fichter

Registration No. 26,382

625 Slaters Lane - 4th Fl. Alexandria, Virginia 22314 Phone: (703) 683-0500

REF:kdd Pet to Wthdrw Abn.wpd

Date: November 8, 2001

BACON & THOMAS 7-86

COMMISSIONER OF PATENTS ACCOUNT
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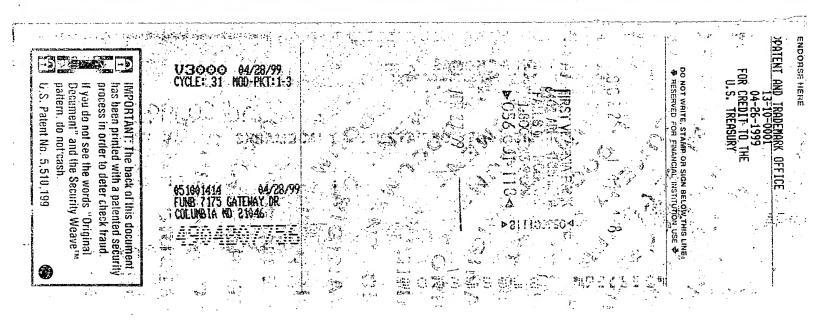
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OFFICE OF PETITIONS

DEPUTY AC PATENTS

BACON & THOMAS 625 Slaters Lane 4th Fl., Alexandria, VA 22314

PATENT APPLICATION (PENDING)

Filed: February 23, 1999 Serial No: 09/243,433

Attorney: REF

Applicant(s): LO et al. MAILROOM Special Instructions:	- ART UNIT		
The PTO stamp hereon ackno	owledges receipt of:	•	
☐ Amendment/Response	Missing Parts Response w/Decl.	☐ Request for Refund	
☑ Check \$ 130.00	☐ Appeal Brief (Triplicate)	▼ Form PTO-1533	
☐ Issue Fee	☐ Priority Documents(s)	☐ Assignment	
☐ Preliminary Amendment	☐ Notice of Appeal		010
☐ Extension of Time Petition	n Substitute Declaration		
☐ Terminal Disclaimer	☐ Information Disclosure Stmnt	□w/refs.	(APR 2)
☐ Reply Brief (Triplicate)	☐ Request for CPA		ATTEN 2 3 1899 5
☐ Sheets of Drawings -	☐ Formal ☐ Informal		
☐ Sm. Entity Statements	☐ Inv. ☐ Sm. Bus. ☐ Non-Inv. ☐ 1	Non-Profit	Company OFFICE
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OFFICE OF PETITIONS
DEPUTY AC PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

O et al.

Attention:

BOX MISSING PARTS

Mon Serial No.:

09/243,433

Filed:

February 3, 1999

For:

A method For Making a Tungsten-Plug In An Integrated Circuit

Device Without Volcano Phenomena

RESPONSE AND SUBMISSION OF MISSING PARTS OF APPLICATION HAVING BEEN GRANTED FILING DATE

Assistant Commissioner of Patents Washington, D.C. 20231

Sir:

This is in response to the Official Action dated March 3, 1999, in connection with the above-identified application. The period for response to the Official Action has been set to expire on May 3, 1999.

The Official Action acknowledges receipt of the application, but indicates that the Declaration under 37 C.F.R. §1.66 is unexecuted. Applicants submit herewith a properly and fully executed Declaration which identifies the application by serial number, title and by inventors. Form PTO-1533 is submitted herewith along with the required \$130.00 surcharge.

It is believed that the application is now in condition for examination. Accordingly, applicants most respectfully request that an Official Filing Receipt be issued and that the application be forwarded to the appropriate examining group for its examination in due course.

Respectfully submitted, BACON & THOMAS, PLLC

Bv.

RICHARD E. FICHTER Registration No. 26,382

625 Slaters Lane, Fourth Floor Alexandria, Virginia 22314 Telephone: 703-683-0500 Facsimile: 703-683-1080

April 23, 1999

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OFFICE OF PETITIONS
DEPUTY AC PATENTS



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UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 2023I
www.usdfo.gov

APPLICATION NUMBER

FILING DATE

FIRST NAMED APPLICANT

ATTY. DOCKET NO./TITLE

69/243,433

02/03/1999

YUNG-TSUN LO

REF/LO535CIP

海最高の & THOMAS 625 SLATERS LANE 4TH FLOOR ALEXANDRIA, VA 223141176 CONFIRMATION NO. 2498
ABANDONMENT/TERMINATION
LETTER

OC000000006883117

Date Mailed: 10/10/2001

NOTICE OF ABANDONMENT UNDER 37 CFR 1.53 (f) OR (g)

The above-identified application is abandoned for failure to timely or properly reply to the Notice to File Missing Parts (Notice) mailed on 03/03/1999.

A petition to the Commissioner under 37 CFR 1.137 may be filed requesting that the application be revived.

Under 37 CFR 1.137(a), a petition requesting the application be revived on the grounds of **UNAVOIDABLE DELAY** must be filed promptly after the applicant becomes aware of the abandonment and such petition must be accompanied by: (1) an adequate showing of the cause of unavoidable delay; (2) the required reply to the above-identified Notice; (3) the petition fee set forth in 37 CFR 1.17(I); and (4) a terminal disclaimer if required by 37 CFR 1.137(d).

Under 37 CFR 1.137(b), a petition requesting the application be revived on the grounds of **UNINTENTIONAL DELAY** must be filed promptly after applicant becomes aware of the abandonment and such petition must be accompanied by: (1) a statement that the entire delay was unintentional; (2) the required reply to the above-identified Notice; (3) the petition fee set forth in 37 CFR 1.17(m); and (4) a terminal disclaimer if required by 37 CFR 1.137(d).

Any questions concerning petitions to revive should be directed to "Office of Petitions" at (703) 305-9282.

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A copy of this notice MUST be returned with the reply.

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Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

OFFICE OF PETITIONS DEPUTY A/C PATENTS



ATENT APPLICATION AND APPOINTMENT OF ATTORNEY DECLARATION FOR

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name; I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention (Design, if applicable) entitled: A METHOD FOR MAKING A TUNGSTEN-PLUG IN AN INTEGRATED CIRCUIT DEVICE WITHOUT **VOLCANO PHENOMENA**

the specification of which (check one):

□ is attached hereto, or 🛮 was filed on: February 3, 1999

as U.S. Application Number: 09/243,433

and (if applicable) was amended on:

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56. 1 hereby claim foreign priority benefits under Title 35, United States Code §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed

PRIOR FOREIGN APPLICATION(5)			PRIORITY CLAIMED	
Number	Country	Day/Month/Year Filed	Yes	No

Additional Priority Application(s) Listed on Following Page(s)

I HEREBY CLAIM THE BENEFIT UNDER TITLE 35 U.S. CODE §119(E) OF ANY U.S. PROVISIONAL APPLICATIONS LISTED BELOW.		
Application Number	Day/Month/Year Filed	

Additional Provisional Application(s) Listed on Following Page(s)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating The United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application(s) and the national or PCT

Application Number	Filing Date	Status - Patented, Pending or Abandoned
掛, 08/651,535	May 22, 1996	Abandoned in favor of CIP
连 .		

☐ Additional US/PCT Priority Application(s) listed on Following Page(s)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: I (We) hereby appoint as my (our) attorneys, with full powers of substitution and revocation, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: J. Ernest Kenney, Reg. No. 19,179; Eugene Mar, Reg. No. 25,893; Richard E. Fichter, Reg. No. 26,382; Charles R. Wolfe, Jr., Reg. No. 28,680; Thomas J. Moore, Reg. No. 28,974; Joseph Dellemedictis, Reg. No. 28,502; Benjamin E. Urcia, Reg. No. 33,805; Chung C. Chen, Reg. No. 31,725; and

I(we) authorize my(our) attorneys to accept and follow instructions from Yuso International Patent and Trademark Office regarding any matter related to the preparation, examination, grant and maintenance of this application, any continuation, continuation-in-part or divisional based thereon, and any patent resulting therefrom, until I(we) or my(our) assigns withdraw this authorization in writing.

Send correspondence to:

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;

BACON & THOMAS, PLLC 625 Slaters Lane - 4th Floor

Telephone Calls to: (703) 683-0500

Alexandria. VA 22314-1176 FULL NAME OF FIRST OR SOLE INVENTOR CITIZENSHIP Yung-Tsun LO Taiwan RESIDENCE ADDRESS POST OFFICE ADDRESS IS THE SAME AS RESIDENCE ADDRESS No. 123, Lin Shen Rd. UNLESS OTHERWISE SHOWN BELOW Lo Dong Town, Yi Lan DATE SIGNATURE 25 (999 世 1.

ATTORNEY/DOC. And: REF/433/LO CONTINUATION OF DECLARATION FOR PATENT APPLICATION AND APPOINTMENT OF ATTORNEY

Page 2

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FULL NAME OF JOINT INVENTOR	Crtizenship Taiwan			
Residence Address No. 656, Jing Cheng Rd. Taichung, Taiwan, R.O.C.	POST OFFICE ADDRESS IS THE SAME AS RESIDENCE ADDRESS UNLESS OTHERWISE SHOWN BELOW			
DATE March 28. 1999	SIGNATURE Lay Si			
41				
FULL NAME OF JOINT INVENTOR REPORT OF THE PROPERTY OF THE PRO	CITIZENSHIP Taiwan			
RESIDENCE ADDRESS No. 30, Alley 132, Fu Kuo Rd. 2 Yung Kang City	POST OFFICE ADDRESS IS THE SAME AS RESIDENCE ADDRESS UNLESS OTHERWISE SHOWN BELOW			
DATE 1 March 26. 1999	SIGNATURE Wen- Yu Ho			
9 ,				
FULL NAME OF JOINT INVENTOR	Стиснания			
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FULL NAME OF JOINT INVENTOR	CITIZENSKIP			
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DATE	SIGNATURE			

□ See following pages for additional joint inventors/priority applications.

(04Avg1998)